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Figure 1A-C

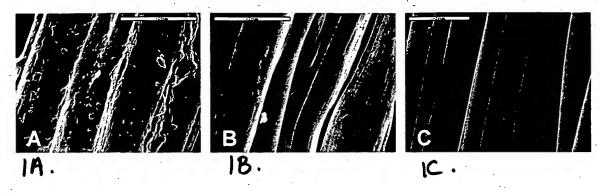
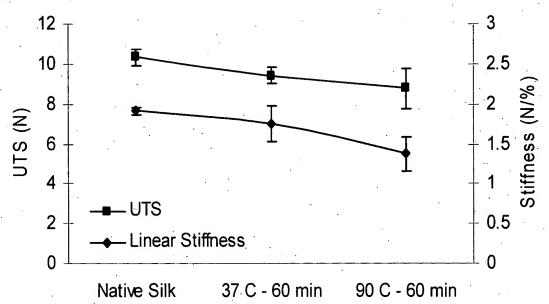
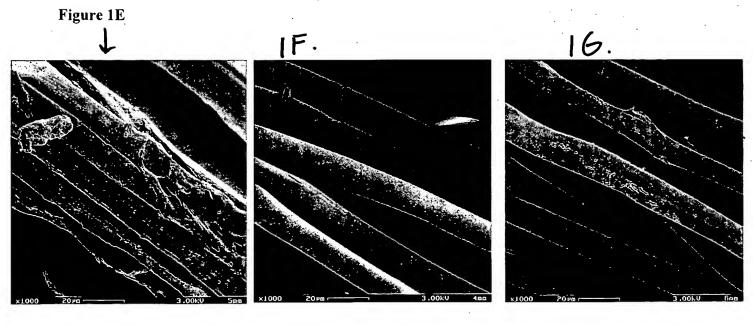


Figure 1D





Raw Silk

1x Washed Silk

2x Washed Silk

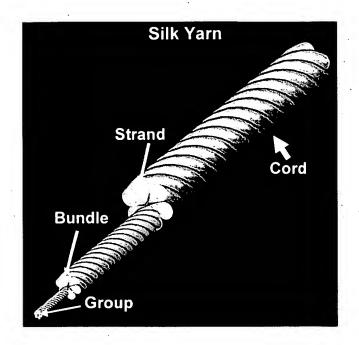


Figure 2B

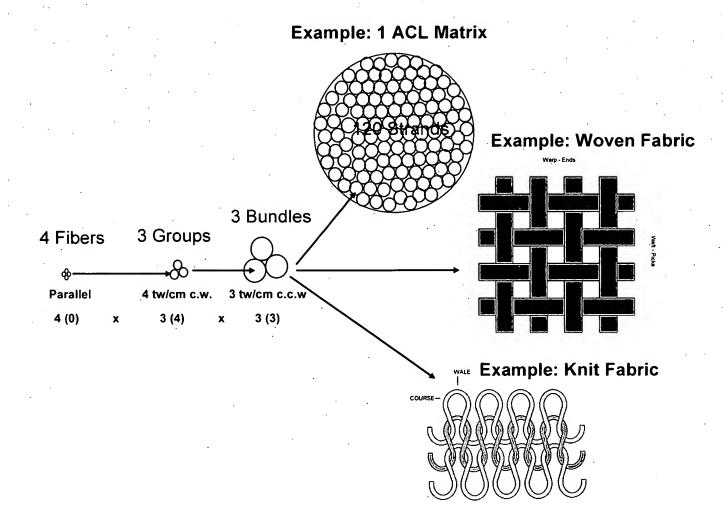


Figure 2C

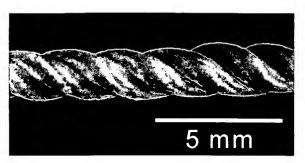


Figure 2D

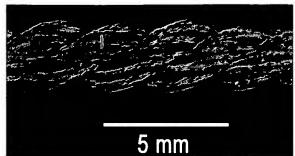
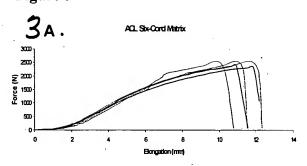
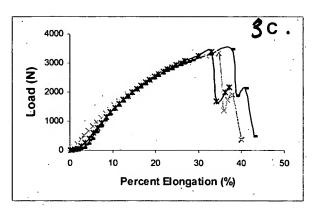
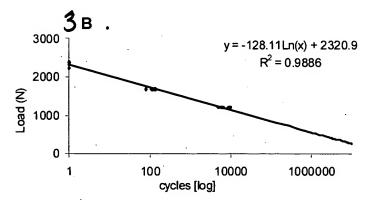
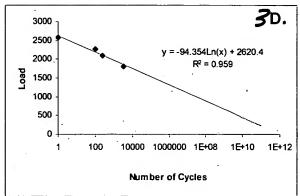


Figure 3









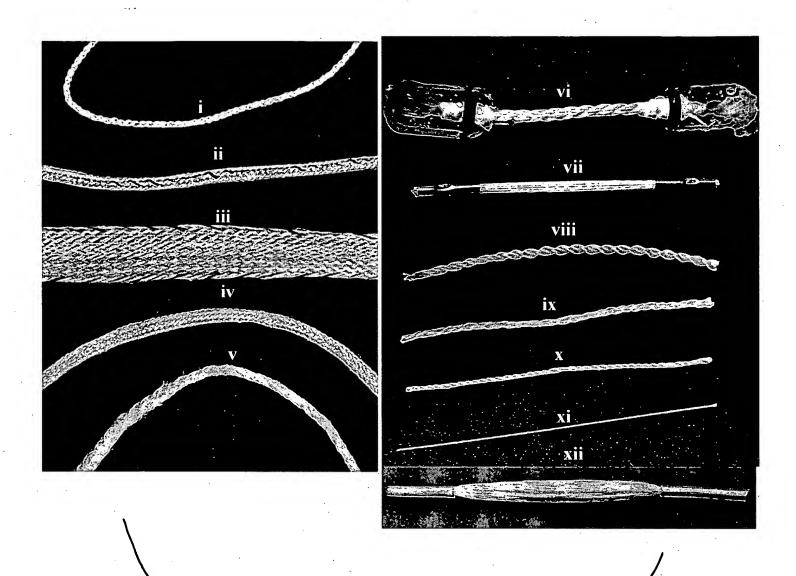


Fig. 4A

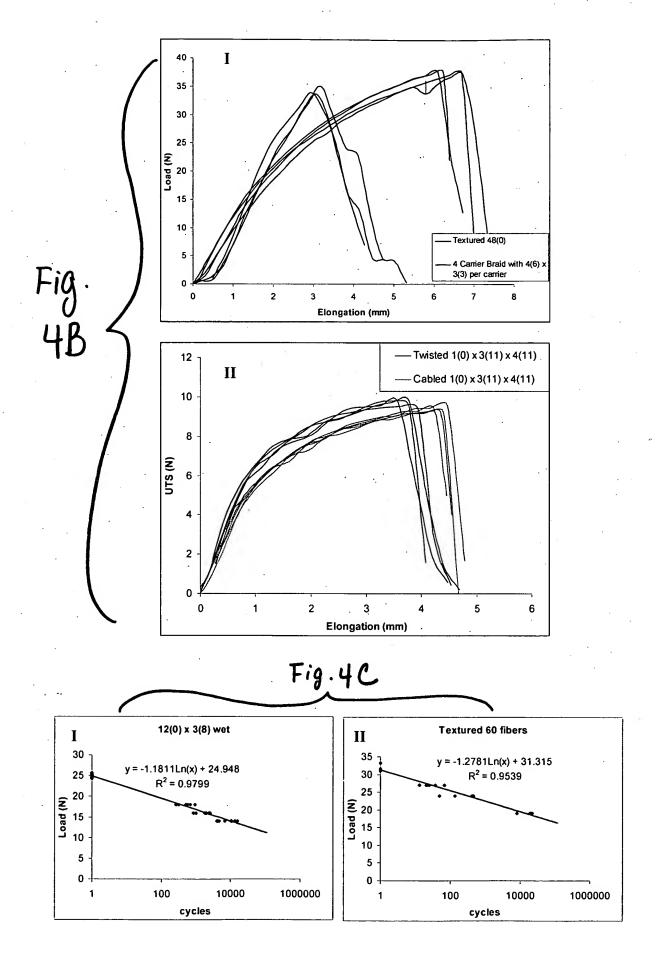


Figure 5A (all done on 12(0) x 3(8), extracted and wet)

Strain Rate			Stiffness	•
(mm/min)	UTS (N)	stdev (N)	(N/mm)	stdev (N/mm)
3050	24.9	0.60	3.70	1.04
2700	25.0	0.86	3.47	0.40
900	24.3	0.50	3.02	0.12
36	22.5	0.70	2.74	0.08

Figure 5B

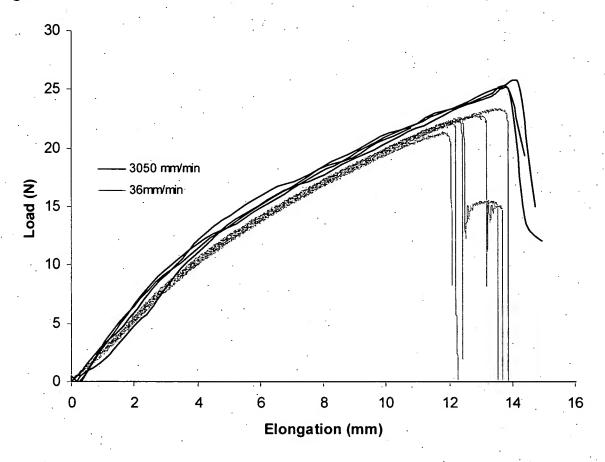


Figure 6A

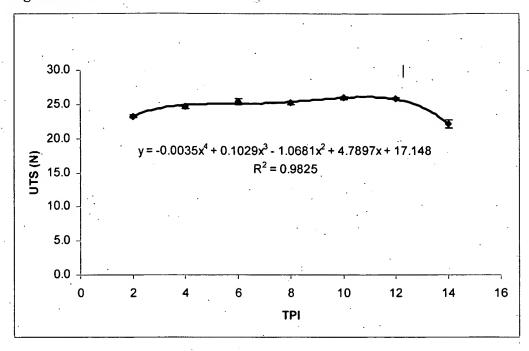
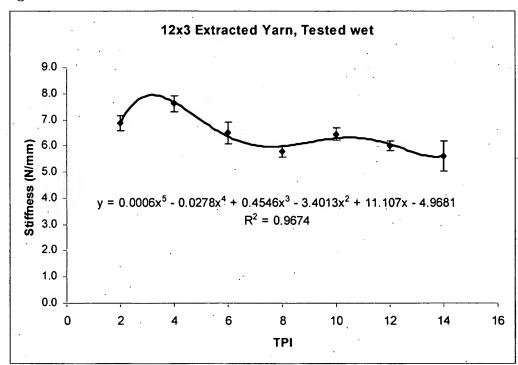


Figure 6B



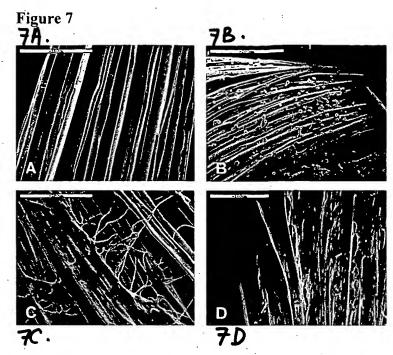


Figure 8

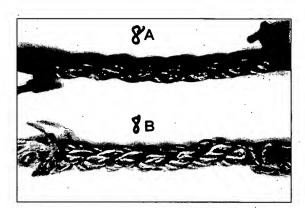
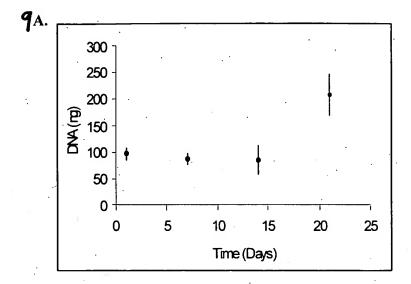


Figure 9



9_{B.}

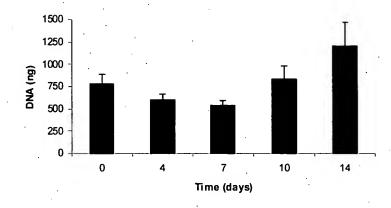


Figure 10

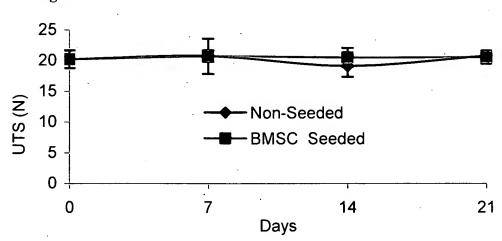


Figure 11A

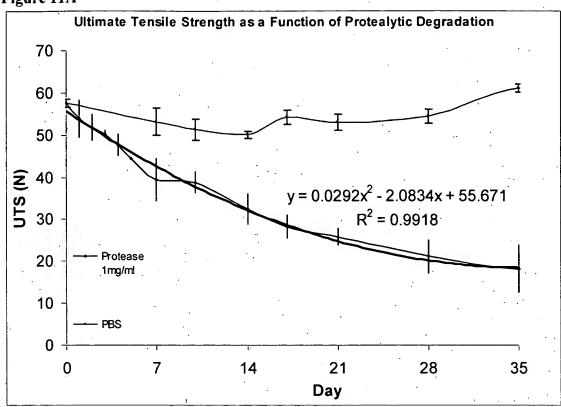


Figure 11B

Silk Mass as a Function of Time in 1mg/ml Protease

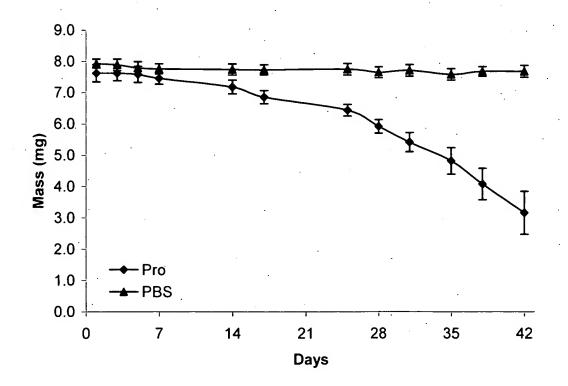
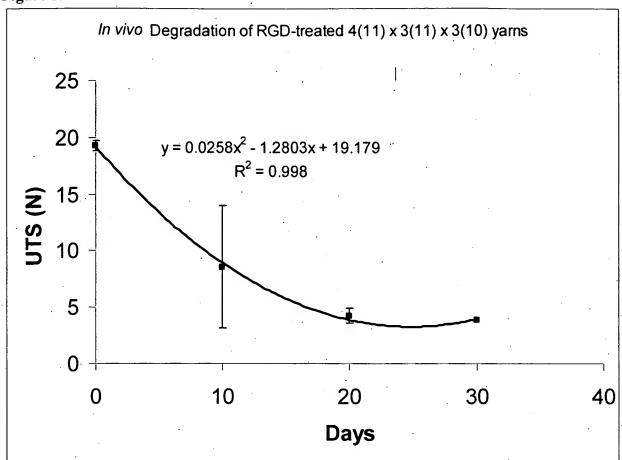
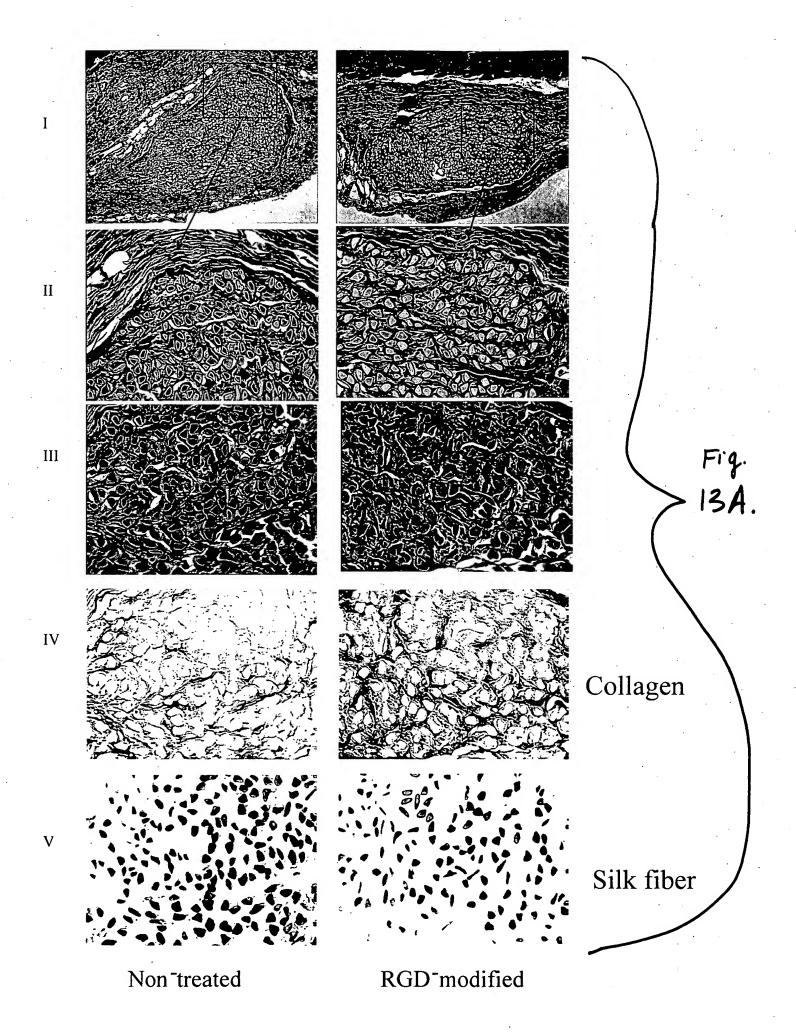


Figure 12





Silk fiber cross-sectional area measurements after 30 days of subcutaneous implantation in a rat

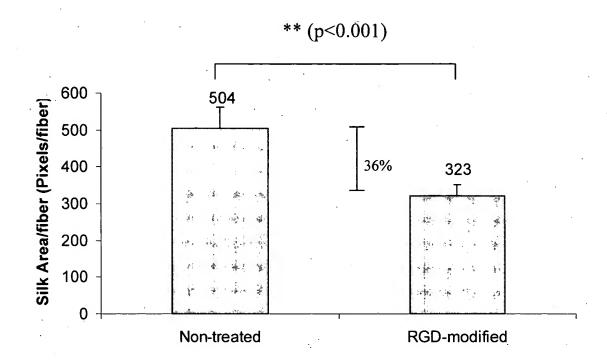


Figure 13C Collagen deposition within 36-fiber yarn after 30 days *in vivo*.

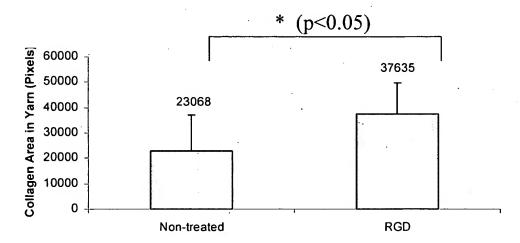
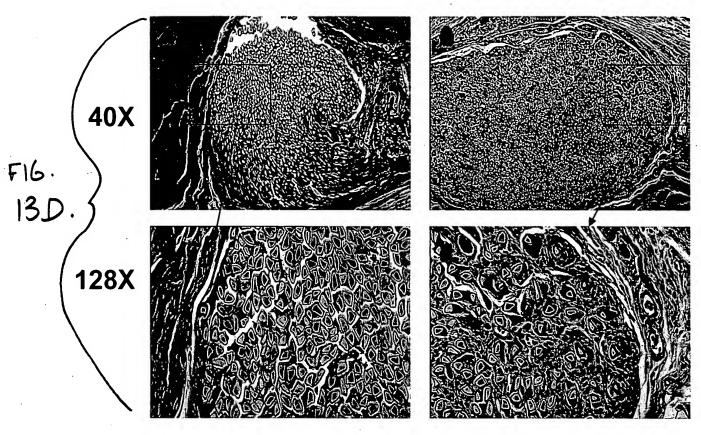


Figure 13D Intra-muscular implantation of 4(6) x 3(3) x 6(0) for 30 days



Non-treated

RGD-modified

Figure 13E

Surface Treatment			Change from day 10 to day 90 (%)
	Silk cross-sectional area (mm²)		
	10 days	90 days	
	0.000118	0.000115	2.5
Non-treated			
	0.000129	0.000096	25.6
N ₂ Plasma			1
	0.000129	0.000082	36.4
RGD			



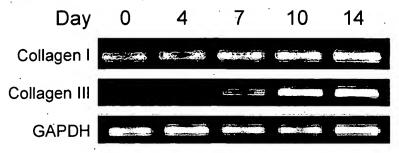


Figure 15

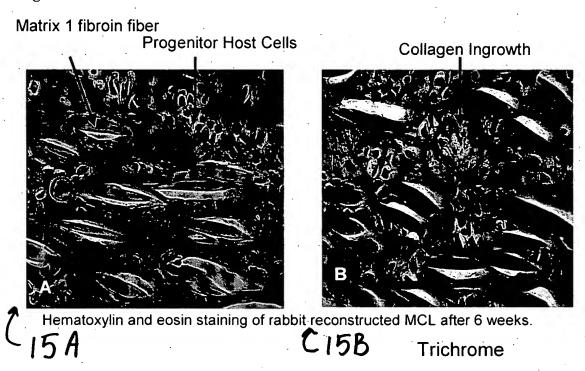
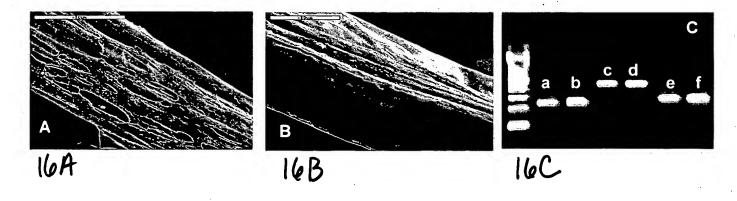
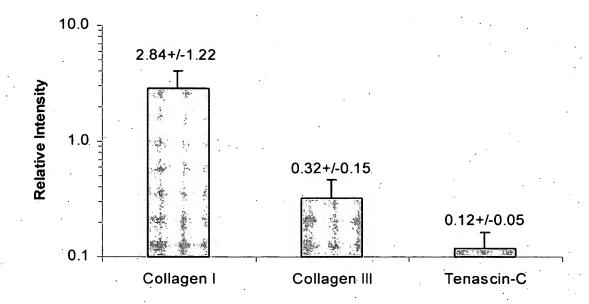
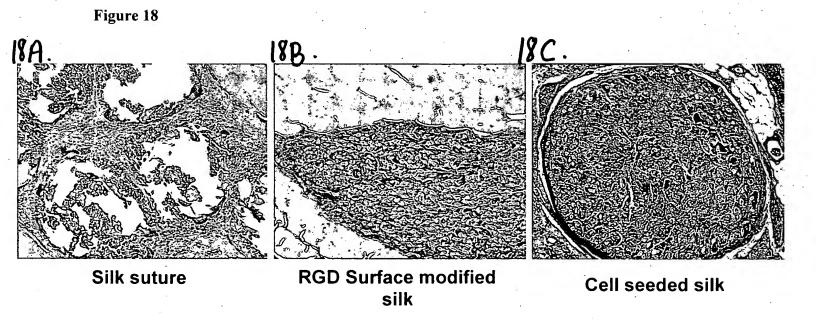
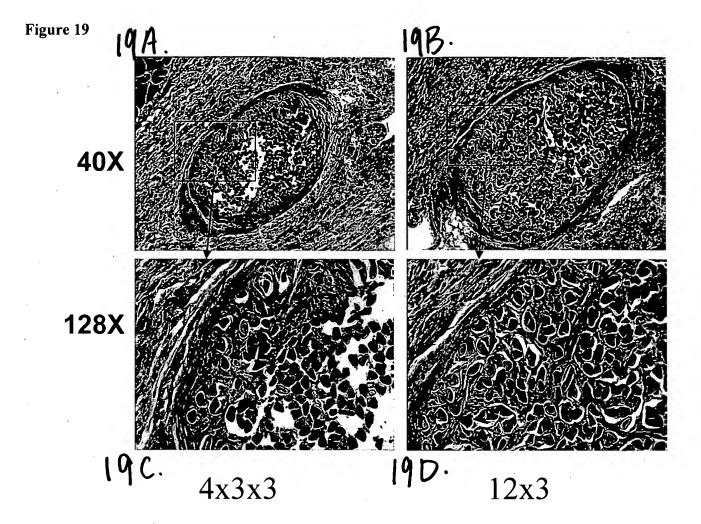


Figure 16

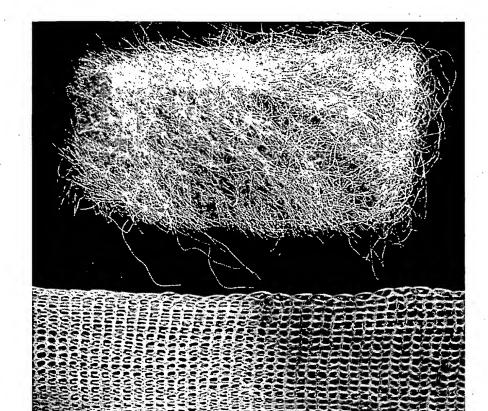








20A.



20B.

aDc.

